Notebook Series -- Notebooks by Edison and Other Experimenters
Disc Record Book No. 18
Notebook, N-16-08-12

This notebook was used by Edison during August-September 1916 for notes on experiments to improve the surface quality and the durability of Edison disc records. There are also notes by William W. Dinwiddie, Archie D. Hoffman, and other experimenters, possibly including Joe Miller and Sherwood T. (Sam) Moore. The entries at the beginning of the book include a list, continued from Book No. 17, of flaws observed in discarded record molds numbered 200-352. Other notes describe a sequence of experiments numbered 1262E through 1307E. Included are tests involving different varnish compounds, variations in the methods of applying the varnish and in the amount of heat and pressure during baking. Also included are entries involving experimental lots of records made with differently constructed or "loaded" record blanks. Flaws and successful results are both noted. At the end of the book is a summary of inspectors' reports, along with notes on labor costs and piece rates and lists of mold "holders." Some notes are in the form of instructions to Hoffman or Dinwiddie. Inserted into the book are several loose notes by Dinwiddie, including descriptions of experiments 1444E-1466E. The front and back covers are labeled "18." The pages are unnumbered. Approximately 150 pages have been used.

Rejected Discarded Moulds

reason for discard.

Aug 12th

Night & Day —

200 — Scratched Label = 27 prints = Bad —

201 = Scratched Label 10 prints — Bad

202 Scratched Label 10 prints Should not have been rejected,

203 Stain — 296 Prints = Should not have been rejected = 2 snaps are in one due to injury to mould but loudest is piece of Condensate stuck on both repairable —

204 Dent — 59 prints New ring 3 dents ~~[illegible]~~ Record powder - at feed line —

205 = Dent - 34 Records — 1/8 of feed line

015 X 030 —

206 - Bruise - 228 Prints Bad - Miller says its done pulling in the trick =

207 - Mothed Surface 86 Prints - its a different working mould than the other - Must be bad submaster - Why 86 prints before discarding Has very bad Run out after start =

208 Bruise - 114 Prints - Bad Cant say what cause it -

209 = 2 long scratches - 320 - bad

210 = Big Hole - 66 prints - hole 065 dia in track - deep - Cant be repaired Bad

211 = Feather Stain = 194 prints - Bad - shows feather in Record Nothing on mould

212 = Buckled Holder = 145 prints - pin dropped from holder above in press man didnt see it + pressed it in

213 = Bruise = 173 Prints - Bad.
Matte bruise Contrary what caused it

214 - Porous Coat = 145 prints =
its probably a loose coat there is
vapor on it there & it looks OK
but Develops loud -

14 only End of Aug 12th Moved Dis.

Aug. 14 Discard Moulds

215 = Mottled Surface = 633 prints,
Evidently got mottled by use above
Discussion - it has snaps
PHENOMENON = The lines are zig zag
based secon

216 = Mottled Surface 548 Prints
Very bad surface - loud secon
should have been discarded long
before - Think should limit to 300
Smooth part next table shows
hundreds of small dents besides
Matte -

217 = Dent = 60 prints .015 round near feed
old mould -

218 = Dent, 156 Prints - old + new ring on new side

219 = Dent = 100 prints old ring - 1/16 off feed
.020 X .060 -

220 = Dent - 201 prints new ring = 2 dents
1/4" feed line - small

221 = Dent = 122 Prints = old ring .010 x .060 off feed

222 = Dent = 90 Prints - old ring = 2 sides by side
1/16 dia off feed

223 = Dent = 41 Prints new ring 1/16 1/8" from feed

224 = Bruise - 78 Prints = new ring

225 = Dent, 67 Prints new ring 1/32 - 1/2" off feed

226 = Stain = 83 prints - Record looks
Very bad =

227 = Bruise = 113 prints = old mould
Due to cleaner = worn - new man
probably

228 = Dent = 15 Prints = old ring =
015 round dent 1/4" feed line -

229 = Bruise - 153 prints old Ring -
grit 025 -

230 = Dent - 267 Prints new ring -
Sliver 020 3/8 long across feed line -

231 = Dent = 136 Prints - old ring - 1/8 dia
1/4 from feed line -

232 = Dent = 83 Prints - new ring -
2 dents 6" apart, sliver 1/16 dia -
near feed

233 = Dent = 148 Prints new ring Sliver
015 @ 1/8 long near feed -

234 = Bruise - 61 prints - new ring -
probably grit -

235 = Dent = 134 Prints New ring
Sliver 030 3/8 long 1/4" off feed

236 = Dent = 91 Prints = New ring =
1" from feed .015 x 1/8

237 Dent = 150 Prints - Old ring =
Stress .020 by 3/8 long starts at feed

238 = Scrape = 117 Prints = New ring
bad

239 = Dent - 406 Prints New ring -
Surface fair =

240 = Bruise = 4 prints = Is a
scrape =

241 = Dent = 191 Prints = new ring 1/2"
from feed .032 1/4" long

242 = Dent = 43 Prints - New Wound
at feed 1/16 dia

243 = Dent = 108 prints, old ring
should not been discarded

244 = for sound in wound - worn out
188 prints = should have been
discarded for run out (big) & bad
surface - probably very worn Copper
18 Rings all changed up

C117

34 Ducardo 14th Aug

Mottled	2
Dent	22
Bruise	5
Stain	1
Scrape	2
Worn out	2
Buckle	1
	35

22, Dents 13 Miscellaneous

245 = Ducardo for Sound in mould worn out
The opposite side of 244 =
to OK Ohanco. not have
been accurate 188 prints
same as 244 —

246 - Dent 143 Prints - old mould
very small dent near feed —

247 = Scrape 171 Prints = new ring

248 = Dent - 36 Prints. old ring -
020 x 1/16 at feed line —

249 = Buckles = 112 Prints = no sign of
dent on opposite side
34 Ducardo —

OK		OK
OK X	OK	OK
	OK X	OK
OK	OK	OK
OK		OK
OK		OK
	OK	
OK X	OK X	OK
OK X		OK
OK	OK	
OK X	OK	OK
75%	58%	45%
33%	16%	00%

Not loaded

1262 E

Use 1261 E new soft blank.
2 brushfull Varnish

Print 4 Rounds on following

Print Req: Except 750 lbs
for 12 minutes

All Printed full + OK now low
good Edges scarcely any
squirt out between moulds

Mix wrong - or mistake
made somewhere
Moulds dirty

1263E

Dup 1262E

Except 700 lbs pressure

OK		OK	x			OK
OK	X	OK		OK		
OK		OK	x	OK	X	
OK		OK		OK	X	
OK	X	OK	X			
OK		OK	x	OK		
OK		OK				
OK	x	OK	x	OK		
OK				OK		
OK		OK	X	OK		
OK	x			OK		
OK		OK		OK		
		OK				
100%		83%		75%		
31%		50%		16%		

1264E

Dup of 1262. Except 650lbs –

Mix wrong or some mistake somewhere

Stuck to mould, moulds dirty

all but 1 permitted full + that was only slight + was ok

OK X	OK X	OK X
OK X	OK X	OK X
OK X	OK X	
OK X	OK	OK X
OK X	OK X	OK X
OK X	OK	
OK X	OK	OK X
	OK X	
	OK X	OK
OK	OK X	OK
OK X	OK X	OK
OK X	OK	
OK X	OK X	OK
91%	100%	66%
83%	75%	40%

1265E 1

Run three 4 rounds of blanks

(Req) you are now making fresh powder press

Req print a schedule

Use new ring moulds

Send to Edison

This is to see if powder is OK + why 1262 + 1264 didn't work ? perhaps powder is now deteriorated as its made in 47 5 46 batches & I think.

The trouble is in the Powder — worse we have had for 3 WEEKS

OK OK	X	OK OK	
OK OK			
OK OK		OK OK	
OK OK		OK OK	X
OK OK	X	OK OK	
OK OK		OK OK	X
OK OK		OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	
83%		75	
41%		41%	

1266 E

Make 2 Rounds Duplicate of 1261.

Watch Press man to see he puts on the 600 lbs Cold. + then puts steam on 6 min Cool 10 min

2 Brushfulls Vare o use square Edged moulds

Trouble is the powder worse we have had in 3 weeks —

1267E

OK X	OK
OK	OK
OK X	
OK	OK
OK X	OK
OK	OK X
OK	OK
OK	
OK	OK X
OK	OK X
OK	OK X
	OK
91%	83%
25%	33%

1267.E

Aug 16

Fresh powder right from the Magnet. 2 Rounds

Schedule - Bring to 600 lbs Cold - then put on steam for 6 minutes, Cool 10 min -

Run regular on Printing

Send to Edison

Read points 12 Noon 17 / Aug 16

The powder is really bad 4th test =

Theory all residual Alcohol gone & the Gritte - too old = wants remnants of Alcohol to prevent brittleness -

C313

Discarded Moulds 15th Aug

250 – Scrape – 96 Prints – old ring – Bad scrape

251 = Big Hole – 105 Prints – sorry

252 = Mottle surface = Crystalline Copper unplating
104 Prints – Very bad surface awful –
should have been caught before it got
so bad – This is a serious thing =
Run out Horrible

4373-B-2-10

253 = Substance in Blank – 40 Prints
Red putty = it dented moved although
soft – Strange = 1/8 gr at feed line

254 = Dent – 64 Prints – .030 X .080
at feed line –

255 = Mottled surface 129 prints
Horrible surface horrible
Run Out. 4342-A-1-95 =

256 = Dent = 44 Prints =

257 = Mottled surface 90 Prints
4402-C-4-24 – This is not
perceptibly mottled but has horrible
run out due probably to unusable cleaners
back to Gently mottled + crystalline

got 12 of 262 from Baldwin on
17th all good surfaces.

258 = Dent - 421 Prints - 1/16 near feed
new ring needed

259 = Dent - 129 Prints need ring
.032 x 1/4" long across feed line -

260 = Mottled surface = 181 prints
Rotten surface should have been
taken off earlier = 4402-C-4-24

261 = Dent = 164 Prints = .03 x 1/8 = at feed line.

262 = Mottled surface 220 prints =
Horrible surface 4745-C-4-12

263 = Mottled surface = 107 prints -
Bad horrible surface -
3083-C-3-13 -

264 = Dent - 22 prints - 1/16 - 1/2 in old ring

265 = Dent - 67 prints need ring -
Sliver 1/4 near feed

266 = Dent — 67 prints, ⅛ dia - new running

267 = Scraped = 132 prints - Ivory
of Chromium clipped —

268 = Rough surface - 232 prints —
not very bad - but OK to Cut out.

269 = Rough surface - 232 prints,
not very bad - OK to Cut out,

270 = Bruise - 177 prints = grit -

271 = Margin — 151 prints = old running
w. a bad Dent in smooth & on
feed line —

272 - Mottled surface - 4378-C-5-69
pretty fair not bad,

273 - Dent - 63 - prints, new running
032 X ¼ middle music —

274 = Mottled surface - 73 prints
3080-C-4-48
Bad at End - mottled at a spot
making Run out -

275 = Dent = 130 prints - Neco ring
Sliver 030 by 3/4" long

276 = Bruise - 203 prints =
looks like hole in plating - round
+ Cryolite all over -

277 = Rough surface = 167 prints
OK rough - Mottled by press

278 - Rough surface - Press Mottled,
Mottled by press = 167 prints

279 = Dent - 138 prints. - 2 slivers
+ a point 3/8 long middle minus
Neco ring

280 = Bruise = 136 prints = Damper -

281 = Mottled surface - 143 prints
Bad = Mottled on back.

282 = Dent 156 = prints Neco ring
sliver 032 + long feed line +

Aug 15

Dents	12
Scrape	2
Bruise	3
Hole	1
Molled by Press	9
Roughness	4
Buckle	1
Substance in blanks	1
	33 Discards -

12 Dents. 12 Miscellaneous -
9 wornout

283 = Buckle = 69 pounds -
Chip of Vase on holder
33 Discards -

Orders Aug 17/16

Hoffman –

Only keep 150 bags of ungrounds powder ahead of grinders + 130 bags of ground stuff ahead of screens + Equal to 50 bags ahead of the Moulders

Edson

On 16th – When blanks started come bad

Estimated on hand

40 000 lbs finished powder
40 000 " ready to grind
80 000 –

Blanks ready for Varnish	2 800
" Varnished	13 000
" Edged	21 500
" Varnished on 2nd Floor	3 500
" New from Hoffman	1 900
	42.700

127 000 blanks –

1268E

		OK OK	X
OK OK		OK OK	
OK OK	X	OK OK	
OK OK	X	OK OK	X
OK OK	X		
OK OK		OK OK	X
OK OK	X	OK OK	
		OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	
OK OK		OK OK	
		OK OK	X
83%		91%	
50%		50%	

1268E Aug 17/16

4 Rounds Drop of 1261E

2 brass fuels —

~~[illegible]~~ 11 are —

Sent to Edison

It's the 17th Aug

Blank —

1269E

OK OK	X	OK OK	X
OK OK	X	OK OK	
OK OK	X	OK OK	X
OK OK		OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK	X	OK OK	X
OK OK		OK OK	
OK OK		OK OK	
			Ck & blank
OK OK			
OK OK	X	OK OK	X
91½%		83	
66%		66%	

Drop lead
5-14-9-20-2-20

1269E

2 Rounds of 1261 blanks

600 lbs Cold, then steam for 6 min — Cool 10 min.

Print on following schedule

~~[illegible]~~ put at contact needle off pin — When temperature reaches 225 deg fahr put on 750 lbs pressure & hold for 12 min Cool ~~[illegible]~~ Cold —

Send to Edison

The 17th drug powder is really bad

OK	OK
OK X	OK
	OK
OK	OK
OK X	OK
OK	OK
OK X	OK X
OK X	OK
OK	OK
OK X	OK
OK	OK
OK X	OK
OK	OK
91%	100%
50%	8%

1270 E

Take fresh powder from Dryers put in Cans – When Cool Enough Run thru Crushers + screens + take several rounds right away – make blanks.

1261 Schedule – ← ////

To have 2 Crushfull Varnish

Print 4 Rounds

Powder still bad –

probable trouble is oxidation of Lac

Regular schedule Blanks—
Reg Var 1 Crucible full—
1 1/10 Lac pounds

OK OK	OK OK X	OK OK X
OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK X
OK OK	OK OK X	OK OK
OK OK X	OK OK	Ven
OK OK X	OK OK	OK OK
OK OK X	OK OK	OK OK
OK OK X	OK OK	OK OK X
OK OK	OK OK	OK OK
OK OK X	OK OK X	OK OK
OK OK	OK OK X	OK OK X
91%	91%	91%
58%	58%	41%

1271 F

Make up Vac Dryer full of Mix 4-3-1 1/10 Lac—
When done put in Cans with top on— When cool enough Grind, Cool + Screen & make up into blanks at once—

Have 1/2 of all the blanks run on 1261 schedule + 1/2 regular schedule—

Send up stairs to Kercher to Varnish with 2 Crucible full ~~the~~ 1261 blanks + Reg Var the Reg blanks—

Print all— but save 4 rounds Each 1261 + Reg + send to Edwin

New Blank

1271E But blanks made with 1261 Schedule + 2 Grumbfulls Var — made at same time as Reg on other side —

1/10 Lacquered

OK OK X	V	OK
OK OK —	OK OK X	OK OK X
OK OK X	OK OK —	OK OK X
OK OK X	OK OK X	OK OK X
OK OK —	OK OK V	OK OK —
OK OK X	OK OK X	OK OK X
OK OK —	OK OK —	OK OK X
OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK
OK OK —	OK OK X	OK OK —
OK OK X	OK OK X	OK OK
OK OK X	OK OK X	OK OK
	OK OK	OK OK
100%	91%	83%
66%	58%	50%

Test Run of Mix for 1 week ahead — time required

24 hours for one dryer full

Hoffman Thinks Can do it in less — Saturday we Could make test — + Know that following week our mix would be OK + what we had to do to make it OK by changing shellac Etc =

1½ hour to mix
1 " load
3½ " dry
½ " unload
1 " standing to cool
8 " cool in Cans
1 " grind
8 " cool after grinding
Screen + make blanks

Discard Moulds Night & Day
16th Aug -

284 = Worn Out - 394 prints discarded by orders - 300 maximum times - Very good surface, could have been run longer but 300 perfects is enough shows 003 crystals on back but pretty good surface on back

285 Worn out - opposite side of 284 - This is better surface than the other two sides at about not bad - balance surface VV - 300 at least is safe if not mottled on back - Crystallin on back even 002

286 = Bruises = 154 Prints - grit in between

287 Dent = 217 prints = nice run Sliver 1/4 long at feed Mottles on back 003 & larger about middle music

288 = Cracklets = 117 Prints - rather mottled on back - Off =

289 - Mottled - 190 Prints -
Very Mottled (bad) on back of
mould - Bad Run Out -

290 = Bruise = 263 prints -
Back fine grain -
Cause of injury Mould holder
dropped on it big injury

291 = Buckle = 95 prints.
fine grain back - Thin - VV surface -

292 Bruise - 80 prints = Edge of
mould holder struck it Mottled
some & very dirty on back.

293 = Mottled surface = 152 prints
Bad mottle on back. 003 @ 005 -
Bad run out -

294 = Dent, = 34 prints - old ring
Very good back - Ott =

295 = Dent = 84 prints =
good back = Ott -

296 = Porous Spot = 111 Prints =
Dont think showed 6x discounted
~~[illegible]~~.
297 =

See further on

Notes on Temperature of
Blank Powder

Mill down 2 hours to cool -

after starting up temp of
powder taken at discharge
pipe from grinder 130° Fahr

When Mill is hot temp 168° Fahr

Temp powder after passing thru
Conveyors + Elevator 110° Fahr
from Cold Mill +

128°F from Hot Mill -

1272E Req 1 Lac powder
1 Lac -

	OK X	OK	OK
OK	OK	OK	OK
OK X	OK	OK	
OK	OK	OK x	OK
OK			
OK X	OK	OK	
OK	OK	OK	OK
OK	OK	OK	OK x
OK	OK	OK	OK
OK	OK	OK	OK x
OK	OK	OK	OK x
OK	OK	OK	OK x
OK X	OK x	OK	
91%	100%	91%	75%
25%	16%	8%	33%

1272E

Temp powder 135°

Cool grinding Mill down then take some powder run it through to get enough for 5 or 6 Rounds & before powder gets Hot, Stop Taking powder when it gets too ~~hot~~ hot — put Thermometer in powder as it come from Crusher to see how hot it get, Make 4 Rounds 1261E Schedule & send up stairs note of your Moulds Keep clean

Continued

1272 E

1272 E Cold powder
4 Rounds –

Two brushfulls –

Print dug send to
Edison Rush

298 = Mottled Surface 117 Prints
mottled 003 on back as you approach
label = Wrong designation —
Shows be numerous snaps &
bad run out starting a little
ways in —

299 Rough = 214 Prints on back
fair but middle music much
003 — Wrong designation —
Surface is OK for this kind of
record & only one snap
that needs repair near
End — The start is little
rough. but 1 or 2 snaps
could have been repaired

300 = Mottled Surface = 172 pts
back a little mottled fine specks or some
dirt — Bad run out —

301 = Mottle surface - 259 = Prints -
On back pretty general mottle 003
Some run out roaring surface
Some dull knacks 16 lines -

302 Rough Surface - Serapis -
Smooth back - 246 prints -
Should not have been discarded

303 = Crackels - 285 prints back not
mottled = Cano Home = Is little too
rough surface for high class
record - Quiet Spots.

304 = Mottled - 258 prints Back is
very strong mottled 004
Rough general surface.
" " due to 004 mottled

305 = Mottle surface 193 prts. back pretty
good - general surface rather
hard

306 = Mottled - 83 = Somewhat mottled
on back - 003 - Run out bad -
weak Violin

307 = Mottled = 97 = points - back is
Mottled - looks like Checks & are bad
Bad Run out —

308 = Rough - Crackly = 168 Points
somewhat Mottled on back -
might have done 10 or 20 more
not very bad —

309 Mottle Surface = 142 pts - Smooth
back - Run Out in Segmaster
This is 2nd one - notified Dunnidie

310 =	Dent	- 95 pts -	new ring
311 -	Dent	173 "	"
312	Bruise	190 -	Something dropped on Mary
313	"	166 -	grit.
314	Dent.	102	new ring
315	Dent	307	old ring
316	Scrape	353.	Done by Cleaning Tool
317	Dent	58	new ring
318	Dent	187	"
319	Bruise	104	grit
320	Dent	195	new ring
321	Bruise	136	done by Sharp tool

16th –

Dents	12
Bruise	10
Surface	16
Buckle	1
Porous Spot	1
Scrape	1

322 = Bruise 211 pts, something in block
323 Dent 59 " Necessary
324 Dent 145 – "
325 Bruise 377 done by cleaning Tool
326 Bruise 193 something in block

Discarded Moulds 17th Aug/16

327 = Surface Spotty + Crinkly – 291 prints
back only little pitted –
Worst as far as it showed

328 = Mottled surface – 237 prints
Back badly pitted fine – .003 –
Continuous bad surface –

329 = Mottled surf = 216 Prints
Back moderately Pitted =

330 = Mottled = 216 pts Back mottled
surface very bad

331 = Mottled = 344 pts – Back fairly Mottled
.002 – Slight Run Out rough
surface

332 = Mottle = 286 Prints = Back very fine mottle all - Rough surface -

333 Crackly surface = 511 pts pretty good back = Bad surface -

334 = Rough surface - 397 pts Back - Mottled Concentrated in middle Rough surface

335 = Spilly + Shape - 275 prints - Back Mottled - slight RO surface bad

336 Mottled - 261 pts - back pitted Bad Run out & Crackly

337 Mottled - 256 prints - Back slightly mottled - Bad Run out

338 Mottled 145 prints - back good - Run out

339 Mottled 287 pts - back has fine mottle - surface Cracks & Run out

340 Mottled 232 prints – back good – Run Out –

341 = Mottled + Spotty Surf – 272 prints back good – light Run out, fair surface – Spotty –

342 Mottled surface – 272 pts back Mottled – Bad Run out Land surface

343 Mottled – 152 Prints – back good – Run Out + rough surface

344 – Rough + Crackly – 218 pts surface rough + crackly Bad run out

345 – Mottled bad + Crackly – 170 pts Light Run Out – surface good

0021

1916

Surface –	19
Bruce	4
Dent	2
Buckles	1
	26

346 = Bruce – 3 prints = something in blank

347 – Dent 179 prints – recess ring

348 = Bruce 20 prints something dropped on

349 Buckles 37 prints –

350 – Dent 115 "

351 Bruce 112 pts grit

352 Bruce 96 pts

1272E

100%	91%	100%	100%
83%	33%	56%	83%
			97.75
			64.2

1272E X

Duplicate of 1272E

But grinding Machines cooled over Sunday & powder will be much colder —

Powder from Mill only 80° Fahr instead of

~~136° Fahr~~

1272E was 136° Fahr

80° deg 97.75 Com 64.2 perfect when loaded

136 deg 89.2 Com 20.5 perfect. when loaded

8-22-16

	Temp	
Started 830	106	Steam on
9 am	106	"
10 "	104	"
10.15	126	Steam off
1030	126	Water on
1045	125	Water Off
11 am	124	"
11 30	134	Water On (Shut off Vac to start another Dryer
1145	124	Water off
1200	125	"
1 pm	125	"
1.15	125	Water on Powder dry
1 30	122	
1 45	116	
2 pm	110	
2 15	105	
2 30	103	
2 45	98	

Powder 4 3/4 hours - Drying
1 1/2 hours Cooling

Vac 27 to 28"

All further on
1273 E Moulder Clean
Hoffman - Make one
Vac Dryer full of powder -
not allowing temp to
go over 125° Take Keep
time when alcohol etc
practically all out
Vac 28" or more not less
Print of Rounds 1261 E
Schedule - before
making further blanks
of OK Can make all kinds
blanks -
Print Reg Varnishing
with 2 brushfuls

C85

I have a hunch – 4653-C-141

(Smooth) leave this as heavy as you can

12th point

Extreme VVV surface

Start V

smooth to start with

120th = Start good – good

168th " good – good

good + V

V–

I love you California 2806-C-2-68

(Smooth) leave this as heavy as you can – (~~Crystals~~)

Start V

120th Start – V

168th V

only V

only V scant

about V

Dimoulds Expmt Aug 21/16 –

Mould 1 – turned very + thin, the other thick –

All 4 are smooth on back

~~Thin – Start – Nearly V surface~~

12th point

4402-C-9-3

Marriage Bells. turned thin 032 Crystals –

to start with but now smooth –

Start V =

120th point Start – V

168th " fair – fair

VV surface

good surface

good surface

Mariana Overture 2504-C-251

Crystals – leave this as heavy as you can (Crystals)

12th point

Start V =

120th Start – fair

168th " fair

V surface

good "

good

1274	1275	1276
OK	Low 2	OK
OK	OK	X
OK	X	OK
OK X	OK	
OK	X	OK
OK	OK	
OK		OK
OK	OK	X
OK X	OK	X
OK	OK X	OK
OK	OK X	OK X
OK Pulmt	OK	OK X
OK Low 2	OK X	OK X
	OK X	OK X
100%	91%	91%
25%	50%	50

1274E — 1275 — 1276 —

Loading Equipt by Dunwoddie
1 round each
Run them on 1261 Schedule
2 brushfuls —

1274E Powder put in pile in Center worked out with hand scraped. after pressing sheet rubber removed, powder is pressed down by hand before put on scraper
1261 E schedule 1 girl run all three tables 2 brushfuls - Printed Req —

1275E Raked across - worked with hands, scraped off — otherwise same as 1274

1276E Same as 1275 Except sheet rubber is put on in loading box

1277 E-B -

—	—
—	OK X
OK —	OK X
OK —	OK —
OK —	OK —
OK X	OK X
OK X	OK X
OK X	OK X
OK —	OK X
OK X	OK —
OK —	OK X
OK X	OK X
83%	91%
41%	66%

1277 E

Hoffman Make 2 rounds
1261 Schedule —
Load the mould by filling
a cone as now but
notate the spreads —

1261 Schedule -

2 brushfuls —

Print Reg

Apparently parallel Cks
Cone no matter how its
loaded, several leads

1278

OK X	OK	OK X	OK
OK	OK	OK X	OK
OK		OK chip	OK
OK	OK X	OK	OK
OK	OK	OK	OK
OK X	OK	OK	OK
OK	OK	OK X	OK X
OK	OK	OK X	OK
OK	OK	OK	OK X
OK	OK X		OK
OK	OK	OK	OK
OK	OK	OK	OK X
100%	91%	91%	100
16%	16%	33%	25

95.5
22.5

1278 E

1273 E Moulded clean but
this after standing in bags 12 hours
moulded dirty moulds
4 Rounds made green

powder brot up in Dryer to
125 & Cooled down by
water 1261 schedule

Held in bags 12 hours

Phenomenon, Unlike 1273, that (next page)
was not Exposed to air much
these records, dont show but little
of the bevel, & therefore deform more
~~than~~

1278 = 20-20-16-20-4-20
1273 20-20-20-20-20-15

no delay
12 hours

Blanks must not deform or
flow much if parallel cracks
are to be erradicated - this is
shown by all previous Experience

1273 Note These dont not fluctuate as usually as previous experiments = The GEWELL lapses is there — while other Experiments is generally almost gone — = a little more improvement which do the

OK OK X	OK OK —	OK OK —	—
OK OK X	OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK X	OK OK X
OK OK X	OK OK —	OK OK X	OK OK —
	OK OK —	OK OK —	OK OK X
OK OK X	OK OK X	OK OK —	OK OK — Pow
OK OK —	OK OK —	OK OK X	OK OK X
OK OK X	OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK —	OK OK —
OK OK X	OK OK —	OK OK X	OK OK X
OK OK —	OK OK X	OK OK X	OK OK —
OK OK X	OK OK X	OK OK X	OK OK X
OK OK X			
100%	100%	100%	91%
83%	58%	66%	58%

1273 E See back 97/75% Comel 66% perfect

Vac Dryer full Temp 125° Fah.

Cooled by water — 1261 Schedule

Moulds were clean after moulding — Used powder right away — Mills Hof — 1261 Schedule =

The second test after this powder had stood in bags 12 hours - dirtied the moulds =

This shows that air has a bad effect on the powder, Either by absorbing water, or Oxidation =

Both can be cured by keeping in closed cans after making

Hoffman once remarked that Monday moulds always run dirty +

1279 E

OK OK —	OK OK —	OK OK —	OK OK X
OK OK X	OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK —	OK OK X
OK OK X	OK OK X	[illegible]	OK OK —
OK OK X	OK OK —	OK OK X	OK OK X
OK OK —	OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK X	OK OK X
OK OK X	OK OK X	OK OK —	OK OK X
OK OK X	OK OK X	OK OK X	OK OK —
OK OK X	OK OK X	OK OK —	OK OK X
OK OK X	OK OK X	OK OK —	OK OK X
OK OK X	OK OK X	OK OK —	[illegible]
	OK OK X		OK OK —
100%	100%	83%	91%
83%	83%	41%	66%
		93.5 Coucl	68.2 perfect

1279 E This is pretty good but flows too much yet, some bug somewhere else
Hoffman

Make another Vac
Dryer full of powder 125° Fah
Cool with water —

Grind the powder put
Two cans full away
Mould 4 Rounds —
1261 schedule —
2 Brushfulls
Print Reg —
Then hold the 2 Cans
1 of which after 24 hours
make 4 rounds + mould
at 1280E The other
Can hold for 48 hours
& mould under 1281 E
Moulds Clean, same moulds on 4 Rounds

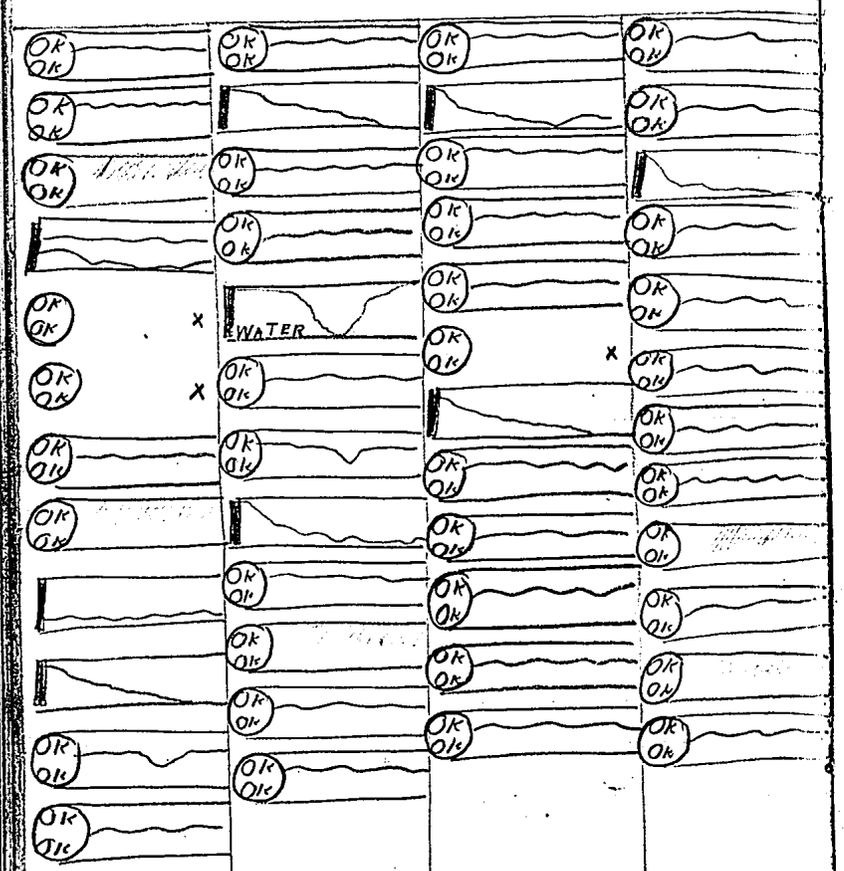
66%	66%	33%
8%	8%	8%

1280E

Same powder as 1279E
but held in Closed Can
24 hours

Same Moulds for all 4 rounds. kept clean

1281-E 8/29/16



75%	75%	83%	91%
16%	00%	8%	00%

1281 E

Same powder as 1279 E but had 75 hours in closed can

C1013

Note that 1273 powder used immediately gives better drop test than 1278 which is same powder kept in bags 12 hours & hydrated —

Note = Records that after Printing show the full bevel & do not flow on 1261 schedule are almost free of parallel Cracks & are good — This apparently can be attained by not going above 135° in Vac & cooling in Vacs & keeping powder in closed cans so wood fibre cannot absorb moisture, & grinding it so powder dont go much above normal temp in grinders & keeping powder in closed cans till used —

Good results are obtained by keeping away moisture although powder gets hot in grinding = but its best to have grinder cold as possible by a water jacket Etc.

1282 E Drop Test

Aug 25/16 20-2-9-1-12-20

OK OK X	OK OK	OK X	OK
OK OK X	OK OK	OK X	OK X
OK OK X	OK OK X	OK X	OK X
OK OK X	OK OK X	OK	OK X
OK OK X	OK X	OK X	OK
	OK	OK X	OK X
	OK X	OK X	OK X
OK OK X	OK	OK X	OK
OK OK X	OK	OK X	OK X
OK OK X	OK	OK X	OK
OK OK X	OK	OK X	OK X
OK OK X	OK X	OK X	OK
OK OK X	OK		
OK OK Chipped			

Average

Calliper - 219, 218, 224, 212, 212, 218 } 217

91-%	100%	91%	100%
83%	41%	83%	58%

Cracks very fine

1282 E

Hoffman make up one dryer full of powder 3½ parts Wood fibre 3½ parts of Chalk & 1 Shellac Dry at 125° Fahr water Cool Grind some immediately & Run Them 4 Rounds - & also fill Two closed Cans of ground powder, & will let you know what to do with Cans —

Make blanks on 1261 Schedule

2 trees to fells & present Rep

Same set moulds for 4 rounds moulds Clean but had bits as if air got in dont hurt in making blanks but may give trouble up stairs

C1073

Records filled Gavel

Dumoiddies Experiment

1238 E Unit 8 - Inspection before Var 11 greyspots
See Top of Each column

Unit 3 11 greyspots	Unit 2 10 grey spots			
OK OK X	OK OK —			
—	OK OK Streak 2 weeks			
OK OK —	—			
—	OK OK —			
OK OK X	OK OK —			
OK OK X	—			
OK OK —	OK OK —			
OK OK —	OK OK —			
OK OK X	OK OK —			
—	OK OK —			
OK OK X	OK OK X			
OK OK —	OK OK —			
75%	83%			
41%	8%			

Unit 8 11 grey spots	Unit 4 8 greyspots	Unit No 1 9 greyspots	No 7 Unit 10 grey spots
OK OK X	OK OK X	OK OK —	OK OK —
OK OK X	OK OK —	OK OK —	OK OK —
OK OK —	—	—	OK OK —
OK OK X	OK OK —	OK OK —	OK OK X
OK OK —	OK OK —	OK OK X	OK OK X
OK OK —	OK OK —	—	OK OK —
OK OK X	OK OK —	OK OK —	OK OK X
OK OK X	OK OK X	OK OK —	OK OK X
OK OK X	OK OK —	OK OK X	OK OK —
OK OK Po	—	OK OK —	OK OK —
OK OK — Po	—	—	OK OK X
OK OK X	OK OK —	OK OK X	OK OK —
			OK OK —
100%	83%	75%	100%
50%	25%	25%	41%

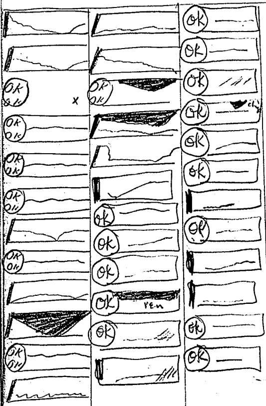
1283 E

OK	X	OK	X
OK	—	OK	X
OK	////	OK	X
OK	X	OK	////
OK	—	OK	—
OK	X	OK	X
OK	X	OK	X
OK	X	OK	X
OK	X	OK	—
OK	X	OK	X
OK	X	OK	X
OK	X	OK	X
100%		100%	
75%		75%	

1283 E

Print 2 Rounds req blanks
not bevelled but sharp
Edge Taken off by file –
Req Varnish –
Req Print –

1284E



50%	50%	75%
8%	None	none

1284 E

Hoffman = Make some Reg powder. 200 lbs more or less want of Rounds The powder is regular but the amount of Lampblack is <u>doubled</u>

Blanks to be made
1261 schedule
Varnish 2 brushfull

Print Reg

Same Moulds used for 4 rounds
Moulds clean except each time wiped off with dry cloth.

1285 E

Kracher

Print 4 rounds with blanks that ~~are~~ have a different bevel – you will have to change one bevelling machine –

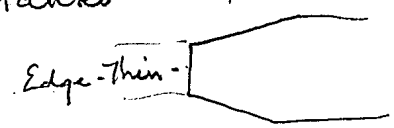
1286 E

OK	[redacted]
OK X	OK PO
OK Pull	OK
OK Pull	OK PO
OK X	OK
OK X	OK X
OK Pull o	OK X
OK Pull out	OK
OK	OK PO
OK X	OK X
OK X	OK X
OK Pull	OK X
100%	91%
41%	41%

95.
41

1286 E

Select 2 Rounds of blanks



Varnish + Print Reg

Note fine line near Edge pull outs.

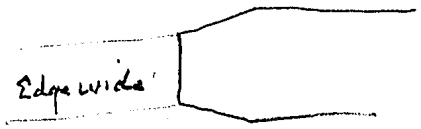
This seldom occurs regularly When it does it, probably does to a thin blank ~~[illegible]~~ a thin Edge

1287E

OK	X	OK	X
OK		OK	X
OK			
OK		OK	X
OK	X	OK	X
OK		OK	X
OK		OK	X
OK		OK	X
OK	X	OK	X
OK	PO	OK	
OK	X	OK	X
OK	X		
OK	X	OK	X
100%		83	
50%		75%	

1287E

Select 2 Rounds of blanks



Present & Normal Reg

Note almost absence of Line Pull outs in this against 1286 Thin Edge

Thin Edge	Thick Edge
95 Comal	90 Comal
41 perfect	62 perfect -

But 1283 Reg blanks Not Bevelled
is better
100% Comal
75% perfect -

1288E

OK X	OK —	OK X
OK X	OK X	OK —
OK X	OK X	OK X
OK —	— Chip	OK X
OK X	OK X	—
OK —	— and	OK —
OK X	— Ocks	—
—	OK X	OK —
OK X	OK X	OK —
OK —	OK —	—
OK —	OK —	OK X
OK —	OK X	—
91%	66%	66
50%	50%	33%

1288 E

1280
1288 Were in one oven
1288
all double Vars

Hoffman — May be bad schedule in oven & too wet 1289 was in but that a single Var

Make some powder, mixed 1/3rd longer in the mixer than regular run it then in Cans & make up 4 Rounds 1261 schedule

2 Breakfalls Varnish

Print Req —

Thes to go then on 125° for Coal in Dryer lot which is now standard

4 rounds same moulds kept clean Except had to pe off each time with dry cloth,

Note = it is not true that blanks which dont show flow & bevel is shown full dont Crack = Thes 1288 presented bevel + no flow still Crack

OK		OK X
OK X	OK	OK X
OK	OK	OK X
OK	OK X	OK
OK X	OK X	
OK X	OK X	OK
OK X	OK X	OK X
OK X	OK X	OK
OK X	OK X	OK X
OK X	OK	OK X
OK X	OK	OK
OK X	OK	OK
100%	91%	91%
95%	50%	50

1289 E

Kurcher.

Make 4 Rounds regular blanks Not bevelled but sharp Edges off with file

Reg Vary Reg Point, recommended

OK X	OK X	OK X
OK X	OK X	OK —
OK X	OK X	OK X
OK —	OK —	OK X
OK —	OK X	OK —
OK —	OK —	OK X
OK —	OK X	OK X
OK X	OK —	OK X
OK —	OK X	OK —
OK X	OK —	OK X
OK X	OK X	OK —
OK X	OK X	OK —
100%	100%	100%
50%	66%	58%

1290 E

Hoffman

Make 4 Rounds regular blank on 1261 schedule

These blanks not to be bevelled, sharp Edges taken off —

Varnish 2 brushfulls

Print Reg

Dunwoodie —

Run a Vac Dryer full of Powder using only fresh Alcohol —

4 Rounds - 1261 schedule
2 drum fulls Vari —

4 Rounds Reg blank schedule

Duplicate these from Cans saved 4 24 hours old

This should show if its the alcohol —

If it is I will get a rectifying still —

~~[illegible]~~

Dunwoddie —

You better raise temperature of Vacuum Dryer from 125° Fahr to 150° since we have found its not Oxidation, When we got good results it was 160° — 150° with 27 @ 28 Vac well. Take water out, and give Margin for neglect, by having temperature too low —

1291E

8/30/16

Oven #5	Oven #5	Oven #8	Oven #8
OK OK x	OK OK x	OK OK x	OK OK x
OK OK	OK OK	OK OK	OK OK
OK OK x	OK OK x	OK OK x	OK OK x
OK OK	OK OK	OK OK x	
OK OK x			OK OK x
	OK OK	OK OK x	OK OK x
OK OK	OK OK		OK OK
	OK OK		
OK OK x		OK OK x	OK OK x
OK OK x			
	OK OK	OK OK	OK OK x
OK OK x		OK OK	OK OK
OK OK x	OK OK		
	OK OK	OK OK	
	OK OK		OK OK x
83%	83%	75%	83%
58%	16%	33%	58%

I propose following test

1291E (see also 1291E B after 1302)

Make one Vacuum dryer full with powder using only fresh alcohol — 150° Hahn in Dryer-Coal

Put it in cans — by scoops take some from each can — Enough from each can to make 4 Rounds

Run on regular Varnish + but 2 rounds in one oven 2 in another

Print Schedule

See next page

Regular

Moulds clean -

1292-E

8/31/

Oven # 7	Oven # 7	Oven # 8	Oven # 8
OK OK	OK OK ×	OK OK ×	OK OK
OK OK	OK OK ×	OK OK ×	OK OK ×
	OK OK ×	OK OK ×	OK OK
	OK OK ×	OK OK	OK OK ×
OK OK ×	OK OK	OK OK ×	OK OK
OK OK	OK OK ×	OK OK ×	OK OK ×
OK OK		OK OK ×	OK OK ×
OK OK ×	OK OK ×	OK OK	OK OK ×
OK OK	OK OK ×	OK OK	OK OK
OK OK ×	OK OK ×	OK OK	
OK OK	OK OK	OK OK	
	OK OK ×	OK OK ×	
OK OK	OK OK	OK OK ×	
75%	91%	100%	83%
25%	66%	58%	50%

1292-E

Duplicate of 1291E

Scoops from all the Cans

Taken 24 hours afterwards

4 Rounds

in Varnishing bake 2 rounds

in one oven 2 in another

1293-E 9/5/1

Oven # 8	Oven # 5	Oven # 8	Oven # 5
OK OK	OK OK x	OK OK x	OK OK x
OK OK	OK OK x	OK OK x	OK OK x
OK OK x	OK OK	OK OK	OK OK
OK OK x	OK OK x	WATER	OK OK
OK OK		OK OK x	
OK OK x	OK OK x	OK OK x	OK OK x
OK OK x	OK OK x	OK OK x	OK OK x
OK OK x	OK OK x	OK OK	OK OK x
OK OK x		OK OK low - 3	OK OK x
OK OK	OK OK x	OK OK x	OK OK
OK OK x	OK OK	OK OK x	OK OK
OK OK x	OK OK x	OK OK x	OK OK x
100%	83%	91%	91%
66%	66%	66%	58%

1293.

Duplicate of 1291E But taken 48 hours afterwards — 4 Rounds let the balance of the powder go thru regular

In varnishing bake 2 rounds in one oven 2 in another

1294-E

8/30/1

Oven #5	Oven #5	Oven #6	Oven #6
OK Ok	OK Ok	OK Ok	OK Ok
OK Ok	OK Ok	OK Ok	OK Ok
OK Ok	OK Ok	OK Ok	OK Ok
	OK Ok	OK Ok	
OK Ok	OK Ok	OK Ok	OK Ok
	OK Ok	OK Ok	OK Ok
OK Ok	OK Ok	OK Ok	OK Ok
OK Ok	OK Ok	OK Ok	
OK Ok	OK Ok	OK Ok	
OK Ok	OK Ok	OK Ok	OK Ok
OK Ok	OK Ok	OK Ok	OK Ok
	OK Ok	OK Ok	
OK Ok	OK Ok	OK Ok	OK Ok
OK Ok	OK Ok	OK Ok	OK Ok
	OK Ok	OK Ok	OK Ok
OK Ok	OK Ok	OK Ok	OK Ok
	OK Ok		
83%	100%	100%	83%
66%	75%	83%	58%

1294 E

Dryer full powder mixed with fresh alcohol — But mix this powder 1/3rd longer than usual

Put in Conv. by Scoops make 14 Rounds — (Vac 1450° Fahr Cook 2 hr 10 min 150°)

Furnished regular way 2 rounds baked in one oven 2 in another

|| moulds very dirty — one big pull out — Hoffmann

C147

1295-E 9/5/1.

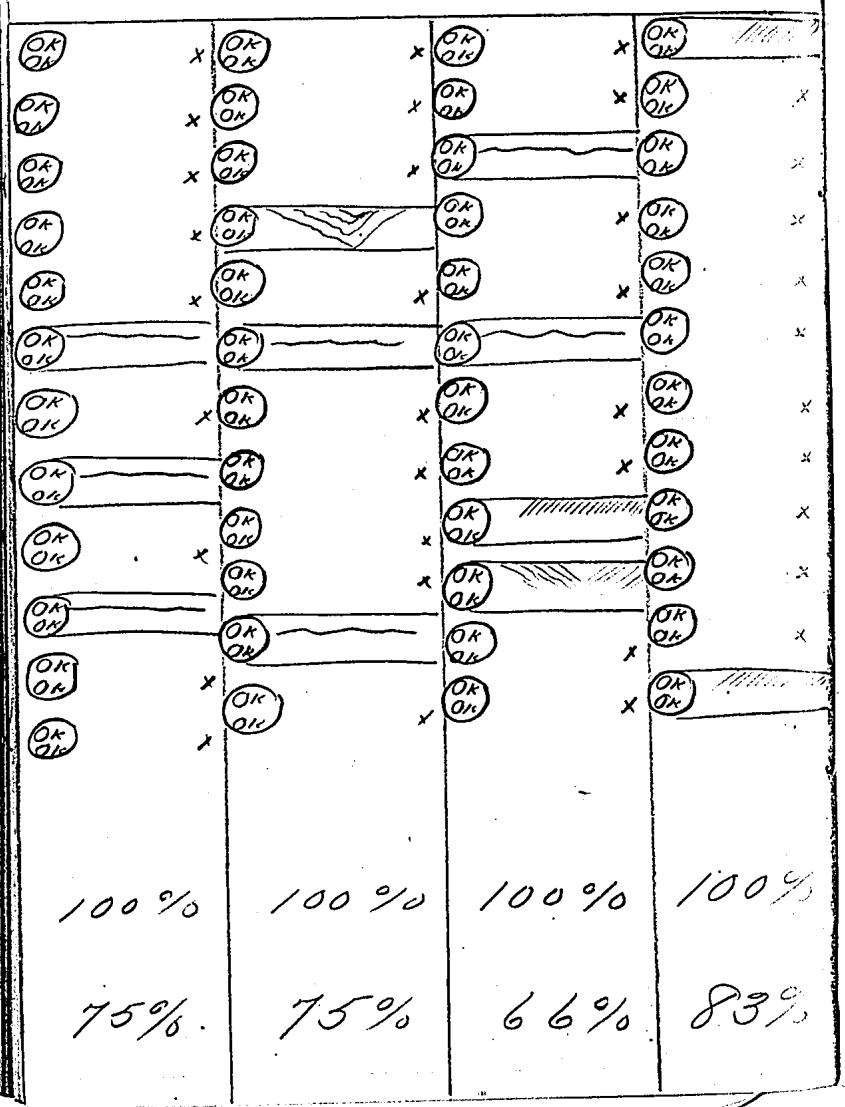
Oven # 6	Oven # 5	Oven # 5	Oven # 6
100%	91%	100%	83%
83%	66%	83%	50%

1295 E

Dup of 1294 E

But with scoops 24 hours afterwards

1296-E 9/5/



1296 E

Dup of 1294

but made 48 hours afterward —

Rosin will lower the melting point of shellac & make it sticky which may be what we want. Dealer guaranteed no Rosin but I think at times it gets in —

Demonstrate —

If any of these show up good, Duplicate using 1261 schedule —

also to see if nothing has changed Duplicate with Regular poor Alcohol as we now use —

~~Also~~ Note 1297 if it Comes out OK might Duplicate on 1261 schedule

This will show if Rosin does anything

1297-E 8/30/1.

Oven # 7	Oven # 7	Oven # 8	Oven # 8
OK OK x	OK OK x	OK OK x	OK OK x
OK OK	OK OK x	OK OK x	OK OK
OK OK x	OK OK	OK OK x	OK OK x
OK OK x	OK OK x	OK OK x	OK OK
OK OK x		OK OK x	OK OK x
OK OK x	OK OK	OK OK	OK OK x
OK OK	OK OK	OK OK	
OK OK x	OK OK x		OK OK x
OK OK x	OK OK	OK OK x	OK OK x
OK OK x	OK OK x	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK x
OK OK x	OK OK x	OK OK x	
100%	91%	91%	91%
75%	50%	58%	66%

1297E

One Dryer full regular Alcohol + powder Except 4—3—1 Shellac Containing 5% of Rosin, (12) the 1 part of Shellac is 95% shellac and 5% Rosin —

Put all in Cans + use Scoops from all Cans —

make 4 Rounds Reg Varnish — 2 rounds baked in one oven + 2 in the other =

Print Reg

|| moulds only fairly clean || no discards.

1298-E 8/28/16

OK	OK	OK	OK
	OK	OK	
OK	OK	OK	OK X
OK X	OK		
OK X	OK X	OK X	OK X
OK	OK	OK	OK X
OK	OK X	OK X	X
OK			OK X
OK	OK	OK	OK X
	OK	OK X	OK
OK	OK	OK X	OK
OK	OK	OK X	X
VENEER			
83%	91%	83%	83%
16%	16%	41%	58%

1298 E

Req powder all 4 Rounds
mCans —

4 Rounds —

Req Vacu
Req blank schedule —
Req permit —

1227-E Repeated — 8/28/16

OK OK x	OK OK x	OK OK VEN	OK OK x
OK OK x	OK OK x	OK OK x	OK OK
OK OK x	OK OK x	OK OK x	OK OK x
OK OK	OK OK x	OK OK x	OK OK x
		OK OK	OK OK x
OK OK x	OK OK x	OK OK	OK OK x
OK OK x	OK OK	OK OK x	OK OK
OK OK x	OK OK	OK OK	OK OK
OK OK x	OK OK x	OK OK x	OK OK
OK OK x	OK OK	OK OK x	OK OK
OK OK	OK OK x	OK OK x	
OK OK x	OK OK x	OK OK x	
OK OK x	OK OK x	OK OK x	
OK OK x			
100%	100%	100%	75%
83%	75%	75%	33%

1299E

Mr. Hoffmann:

Please repeat Experiment 1227E as follows:

Put in fibre and lampblack and mix ten minutes.

Then add shellac and mix for ten minutes.

Then add chalk and mix for ten minutes.

Make 8 rounds regular schedule.

See next page for other Experiments

1299E 8 Pounds 8/31/16

91%	91%	83%	91%
50%	66%	66%	66%

1299-E 8 Pounds 9/5/16

91%	100%	100%	83%
25%	58%	83%	41%

[157]

8/31/10

1300E - 8 rounds
Same powder as 1299E
but pressed on 1261 schedule -
600 lbs cold
Steam for 6 minutes
Cool 10 minutes.

Varnish with two brushes
of regular varnish and
print regular.

83% 41%	91% 25%	75% 8%	75% 41%

1300E 8 Rounds 9/5/10

75% 41%	91% 41%	75% 33%	75% 50%

1301-E

9/5/1[illegible]

OK OK x	OK OK	OK OK x	OK OK x
OK OK //////	OK OK x	Crk ( ) Blk	OK OK x
OK OK x	OK OK x	OK OK	OK OK x
OK OK x	OK OK	OK OK x	OK OK Corr-1-3
OK OK x	OK OK	OK OK x	OK OK x
OK OK x	OK OK x	OK OK	OK OK //////
OK OK	OK OK x	OK OK x	OK OK //////
OK OK x	OK OK x	OK OK x	/7
OK OK x	OK OK x	OK OK x	
OK OK x	OK OK x	OK OK	
OK OK x	OK OK x	OK OK x	
OK OK	OK OK x		
100%	100%	91%	100%
75%	75%	66%	75%

1301 E

Mr Hoffmann please take some powder that has been kept in cans for forty eight (48) or more hours and screen it again coarse screen and then make 4 rounds regular schedule —

Only 43 [illegible] this lot instead of 48

1302-E 9/5/10

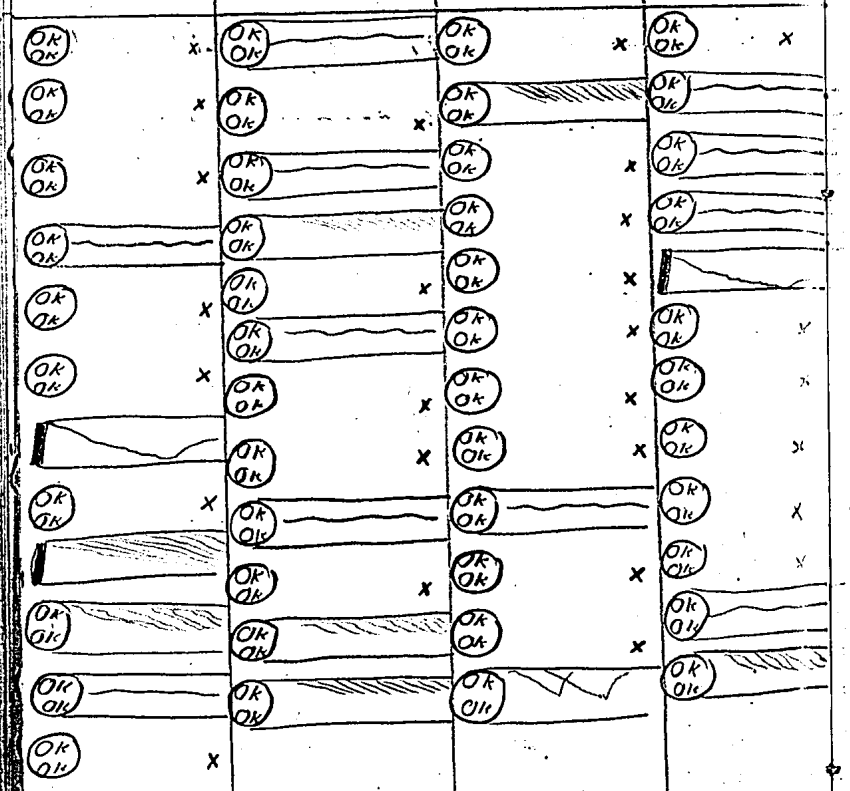
Oven 5	Oven # 5	Oven # 6	Oven # 6
OK OK	OK OK	OK OK x	OK OK
OK OK	OK OK	OK OK x	OK OK
OK OK	OK OK x	OK OK x	OK OK
OK OK x	OK OK x	OK OK x	OK OK
OK OK x	OK OK x	OK OK x	OK OK
OK OK x	OK OK x	OK OK x	OK OK x
OK OK	OK OK x	OK OK x	OK OK x
OK OK x	OK OK x	OK OK x	OK OK x
OK OK x	OK OK	OK OK VEN P.O.	OK OK x
OK OK x	OK OK x	OK OK x	OK OK x
[sketch]	OK OK x	OK OK	OK OK
OK OK x	OK OK x	OK OK x	OK OK
91%	100%	100%	100%
66%	75%	83%	66%

1302 E same as 1297 E
Except made on 1261 schedule
— 4 rounds —
Varnished with 2 brushes varnish

— Print Regular —

1291-E-13.

18/30



83%	100%	100%	91%
58%	41%	75%	50%

1291 E-13 –
same as 1291 except 1261 schedule
moulds clean.

1303-E 9/6/16

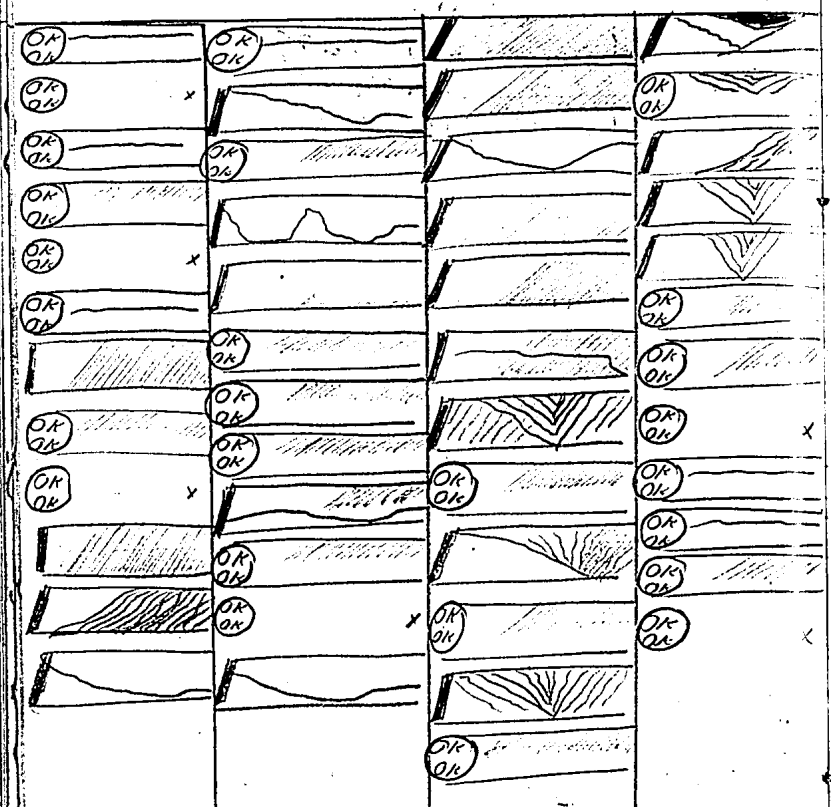
100%	91%	100%	100%
75%	66%	75%	91%

1303-E

Powder in cans throughout process -
between driers and grinder 8 hours -
between grinder & screens 8 hours -
between screens and blanks 2 hours -
Regular all thru -
8 rounds -

100%	100%	91%	91%
66%	41%	66%	66%

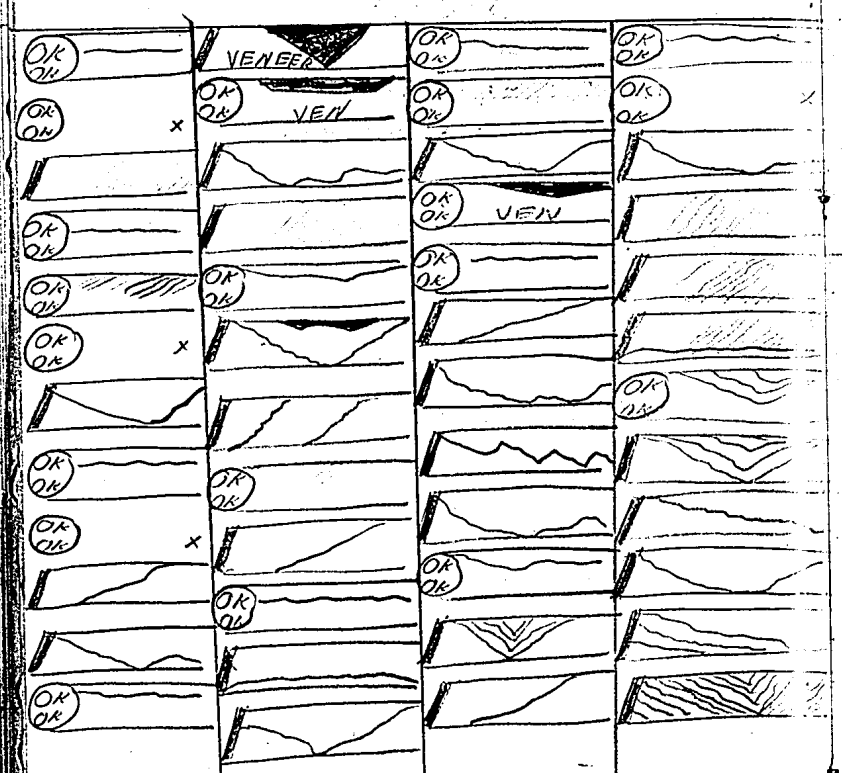
1304-E 9/6



66%	58%	95%	58%
25%	8%	00%	16%

1304 - E
Duplicate of 1299
4 rounds
All new alcohol

1305-E 9/61



66%	33%	41%	25%
25%	00%	00%	8%

1305-E
Duplicate of 1300 E
4 rounds -
all new alcohol

C717

1306-E

Mr. Hoffman —

Please make one load of blanks from each unit in which powder is loaded a little more in the center —

Unit #3	Unit #5	Unit #7	
OK OK x	OK OK		
OK OK	OK OK x	OK OK x	
			OK OK
OK OK x	OK OK x	OK OK x	OK OK
	OK OK x		OK OK
	OK OK		
	OK OK	OK OK VEN	
OK OK x			OK OK
OK OK	OK OK		OK OK x
	OK OK	OK OK x	OK OK
OK OK		OK OK x	
OK OK x	OK OK	OK OK x	
OK OK x			
66%	75%	50%	
41%	25%	41.	

9/8/

1307-E

Mr. Hoffmann — Please make a full batch of powder with 1/10 more shellac — duplicate of 1271 E — Except use bags — Mark it 1307-E
Send 8 rounds to Miller —

OK	OK	OK	
OK		OK	
OK	OK	OK	
		OK	OK Rev - 3
		Crk Blk	OK
OK			
OK		OK	
OK	OK	OK	
OK	OK	OK	OK
OK	OK	OK	OK
OK		OK	OK
OK	OK	OK	OK
	OK		
OK	OK		
83%	58%	75%	58%
8%	00%	16%	25%

1307-E 9/8

OK	OK	OK	OK
OK	OK		OK
OK		OK	OK
OK		OK	OK
OK	OK	OK	OK
OK		OK	OK
OK		OK	OK
OK	OK	OK	OK
OK	OK	OK	OK
OK	OK	OK	OK
OK	OK	OK	OK
OK	OK	OK	OK
OK	OK	OK	
OK	OK	OK	
OK	OK	OK	OK
91%	75%	91%	91%
25%	8%	50%	33%

Aug	Correct	Perfect	Ven po	Rounds	Records New M	NM Ven	NM Dis-	%
18	92.7	66.5	25%	40	303	—	2 Ven	63%
21	94	66.	20%	40	290	-	2 Ven 3 cks	60%
22	96.2	71.4	10%	40	291		1 Ven 7 cks	60%
23	89.1	72.2	10%	40	343		1 Ven 8 cks	71%
24	92.7	78.9	10%	40	378		3 V 8 cks	78
25	91.2	72.9	10%	40	397		2 V 7 cks	80%
26	90.2	66.6	10%	36	368		2 V 10 cks	80%
28	83.9	65.8	10%	40	427		5 1 P.C.	88%
29	90.7	75.4	10%	40	447		2 PC 6. 1 P.C	93%
30	81.	66	10%	36	379		1 V. 4 PC	87%
31	89.7	76.4	8%	40	458		2 V. 3 PC	95%
Sept 1	86.4	68..	10%	40	473		2 V. 4 PC	98%
2	95.8	84.7.	5%	36	432		1 3 P.C.	90%
5	88.7	74.5	3%	40	477		1 V. 3 PC	99%
6	80.9	62.4	00	38	456		1 3 P.C.	95
7	91.	56.	15%	40	480		1 V. 2 P.C	100%
8	91.4	65.8	10%	40	480		3 2 P.C.	100%
9	91.2	71.7	9%	36	432		2 6 P.C.	100%
11	94.5	72.6	10%	40	480		1 8 P.C	100%
12	93.7	79.1	3%	40	480		2 1 P.C.	100%
18	83.9	77	2%	40	480		2 5 P.C.	100%

Wages

Mould Repairers

Grade 1	Beginners	22½c hour
" 2	Repair without instruction	25c
3	Medium speciality of work	30
4	Expert repairers	35
5	Foreman & Instructor Expert	40

Mould testers -

Beginners -	22½ cents
1 month	25
2 "	26
3 "	27
4	28
6	29
over 6 month	30

Nights 10% more, -

Pressmen & Mould assemblers

Beginners	27 cents
1 month -	28
3 "	29
6 "	30

Bonus

If more than 25% of moulds in actual use in presses are discarded for Dents Bruises or injuries due to careless handling no bonus paid

If Discards are

25%	5% bonus
25	10% "
15	15% "
10	20% "

adding	Bonus of 25	20	15	10
27c	283	297	31	324
28	294	308	322	336
29	304	319	333	348
30	315	33	345	36

Night Crew 1/5 more bonus than Day

Mould Holders Clancy has

			Total 1651.
14th rec'd	43		% of all
Square edged		733.	44%
15	40	773	46%
16	43	816	49.4
17	37	853	51.6
18	34	894	
19	13	907	
21	41	948	57.4
22	40	988	59.8
23	36	1024	62%
24	35	1059	
25	50	1109	
26	50	1159	
28	18	1177	
29	24	1201	
30	39	1240	
31	40	1280	
SEPT 1	19	1299	
2	35	1334	
5	21	1355	
6	40	1395	
7	35	1430	
8	28	1458	
9	38	1496	
12	16	1512	

Sept 13	23	1537
14	19	1556
15	10	1566
16	17	1583
18	9	1592
19	10	1602
20	9	1611
21	8	1619
22	6	1625

Aug 14 - 1916 Clancy -

Mould Holder Inventory

Bevel Edged	534
Square "	626
Waiting for bushings	107
Not yet inspected	26
require repairs	18
	1311

Rev

OK ready to deliver	11
to be refinished, holes plugged etc	27
to be inspected & slight fitting	50
to be polished	61
to be lapped	18
in process of filling rings	86
rings drilled & tapped	62
with rings to fit	25
	1651

Discarded too thin can have piece put on the back	71
Have blanks for plates	137
" " rough Turned	34
	242
	1651
	1893

[ITEM(S) FOUND IN BOOK]

444-E Varnish with Lead Resinate supposed to have been used on poisonous experiments (1381)

[ITEM(S) FOUND IN BOOK]

NO-1445-E. Resonate of Lead free from Resin. Put through fine grinding paint mill with alcohol. then Alcohol filtered off on Vac filter Resonate not allowed to dry. filtered OK through two thickness of linen

NO-1446-E. Resonate of Lead free from resin that had been dryed rewet with alcohol then filtered to get rid of alcohol cake not allowed to dry - then put in mortar with a little varnish to work up the cake - filtered OK

[ITEM(S) FOUND IN BOOK]

1447-E. Made Resinate of Lead washed on filter with water then partly washed with alcohol on filter then give one wash in flask to extract resin filtered off alcohol then took 10g- ground in morter with a little varnish to work out the lumps then put in Reg mixer run 1 hr - filtered OK

1448-E. Dup of 1447-E except two treatments with alcohol to extract resin (No-1447 + 1448 to much chance for water also to much alchol required

[ITEM(S) FOUND IN BOOK]

1452-E. Dup of 1448-E except filtered through 1 thickness of linen

1453-E Made with resin extracted from Resonate of Lead which has given good results - the resin contains some lead
6. grams resin
175 " Varnish

1454-E Made with resin extracted from lately made Resonate of lead
6. g Resin
175 " Varnish

[ITEM(S) FOUND IN BOOK]

No. 1454 E
Made with Resin that Contains lead
That was extracted from Resonate of lead
that has been made lately

No 1455 E
Resonate of lead made with
40 g NaOH at 20 Be
40 g Resin + Lead Nitrate sol.
Hard filtering had to change linen
twice

1456 - E
Resonate of Lead
40 g NaOH at 20 Be
50 g Resin + Nitrate of Lead sol.
Hard filtering Resonate of lead not all
dissolved

[ITEM(S) FOUND IN BOOK]

1457-E
Resonate of lead made with
40 g NaOH at 20 Be
30 g Resin + Nitrate of Lead sol
Hard to filter had to change
[illegible]

1458-E
Resonate of Lead made with
40 g NaOH at 20 Be
25 g Resin + lead nitrate sol
Hard filtering
1459 E
Resonate of lead made with
40 g NaOH at 20 Be
20 g Resin + Lead Nitrate sol
Hard filtering

[ITEM(S) FOUND IN BOOK]

1461- O K Bally's No. 14
5 grams (Resonate of Lead)
175 grams Varnish without Lamp
Black. Very bulky

1465- OK
8 grams Resonate of Lead
175 g Varnish without Lamp
Black. Very bulky
Hard filtering

1464 Dup of No Bally's No-1 Resonate of Lead. N.B. made light black
Dup of 1462 except
1463 ~~Bally's No. 83 Resonate of Lead~~
10 g Resonate Lead to 175 g Varnish OK
Hard to filter

[ITEM(S) FOUND IN BOOK]

1462 (Daily's Recovery of Lead 240 33
5 g R, Lead to 175 g Varnish
very bulky - Hard to filter
OK

1466 Dup of 1461 Except
made in Large Batch 33 lbs
Recovery of Lead

[ITEM(S) FOUND IN BOOK]

1849E

Ten Leading mach. from Lab.
Blanks califs.

#1 - 214 - 244 - 30
2 - 225 - 254 - 19
3 - 251 - 258 - 7
4 - 228 - 262 - 34
5 - 223 - 261 - 38
6 - 240 - 265 - 25
7 - 211 - 239 - 28
8 - 234 - 249 - 15
9 - 243 - 253 - 10